



Ph.D. Scholar, Department of CSE
Indian Institute of Technology Patna
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Naseem Babu

Education

- 2020–Present : **Ph.D, Computer Science & Engineering**, *Indian Institute of Technology, Patna.*
Classification of Time Series Data
CGPA: 8.0
- 2018–2020 : **M.Tech, Computer Engineering**, *Malaviya National Institute of Technology, Jaipur.*
Mitigation of Sybil Attack in Mobile RPL Routing Protocol (Internet of Things)
CGPA: 7.38
- 2013–2017 : **B.Tech, Information Technology**, *Dr. Ambedkar Institute of Technology for Handicapped, Kanpur.*
Smart Home Automation using Google Assistant and Blynk app
Percentage : 73.32

Area of Interest

Machine Learning, Deep Learning, Artificial Intelligence, Brain Computer Interface, NeuroScience, Respiratory System, Electroencephalography (EEG), Audio-based Emotions Detection, and Audio Signal Processing.

Publications

Journal Articles

- 2023 **Naseem Babu**, J. Mathew, U. Satija, and V. A. Prasad, A Comparative Investigation of Traditional and PCA Data Augmentation for Scarce Respiratory Signal Classification, *IEEE Sensor Journal* (**Submitted: Impact Factor: 4.325**).

Conference Papers

- 2022 **Naseem Babu**, Jyoti Kumari, Jimson Mathew, Udit Satija, and Arijit Mondal. Multiclass categorisation of respiratory sound signals using neural network. In *2022 IEEE Biomedical Circuits and Systems Conference (BioCAS)*, pages 228–232, 2022.
- 2022 **Naseem Babu**, Prattipati Kumar, Jimson Mathew, and Udit Satija. Exploration of bonafide and spoofed audio classification using machine learning models. In *2022 IEEE 19th India Council International Conference (INDICON)*, pages 1–6, 2022.

Computer skills

- Programming Skills Python, C, Java, Keras, Tensorflow, Pandas, Numpy, Librosa, and MNE
- Web Technologies HTML, CSS, JS, and JSP-Servlets
- Database SQL

Academic & Work Experience

- 2023 CS229: Computer Architecture Lab, IIT Patna
- 2022 High-End Workshop on Deep Learning Based Biomedical Systems, IIT Patna
- 2021 CS229: Computer Architecture Lab, IIT Patna
- 2021 Guest Lecturer in Parul University Gujrat India
- 2020 Teaching Assistant in MNIT Jaipur

Academic Achievements & Honours

- 2022 Grand Challenge Student Research Grant (BioCAS 2022), Grand Challenge on Respiratory Sound Signal Classification, 2022
- 2022 University Grant Commission fellowship for Ph.D. Research work (UGC-NET JRF 2022 Qualified)
- 2018 MHRD fellowship for M.Tech Research Work
- 2018 AIR 1893 in GATE 2018 (3 Times GATE Qualified)

Referees

Prof. Jimson Mathew

(Ph.D. Supervisor)

Professor, Department of

Computer Science & Engineering

Indian Institute of Technology Patna, India

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Prof. Vinod A Prasad

(Ph.D. Co-Supervisor)

Professor, Department of

Infocomm Technology

Singapore Institute of Technology, Singapore

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Dr. Udit Satija

Assistant Professor, Department of

Electrical Engineering

Indian Institute of Technology Patna, India

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